

WHAT IS CLAIMED IS:

CLAIMS :

- 5 1. An ink composition for application on a continuous ink jet printed non-porous substrate, comprising a solvent dye, an acrylic polymer, a pH modifier, and a volatile solvent.
- 10 2. An ink composition as claimed in claim 1 wherein the solvent dye comprises a solvent black dye.
- 15 3. An ink composition as claimed in claim 2 wherein the solvent black dye comprises solvent black 29.
4. An ink composition as claimed in claim 2 wherein the solvent black dye comprises solvent black 28.
- 20 5. An ink composition as claimed in claim 2 wherein the solvent black dye comprises a solvent black dye having a minimum of 5% tolerance to water.
6. An ink composition as claimed in claim 2 wherein the solvent black dye comprises a solvent black dye having a concentration of about 1% to about 10% dry base.
- 25 7. An ink composition as claimed in claim 2 wherein the solvent black dye comprises a solvent black dye having a minimum solubility of about fifty grams per liter in the volatile solvent.
8. An ink composition as claimed in claim 1 wherein the acrylic polymer comprises a styrene acrylic copolymer.

9. An ink composition as claimed in claim 8 wherein the acrylic polymer is present in an amount of about 1% to about 10% dry base.

5 10. An ink composition as claimed in claim 1 wherein the pH modifier comprises DMEA.

11. An ink composition as claimed in claim 1 wherein the pH modifier comprises TEA.

10 12. An ink composition as claimed in claim 1 wherein the pH modifier maintains pH of the ink composition between about 7.5 and about 9.

13. An ink composition as claimed in claim 1 wherein the volatile solvent comprises denatured alcohol.

15 14. An ink composition as claimed in claim 1 wherein the volatile solvent comprises a ketone.

20 15. An ink composition as claimed in claim 14 wherein the ketone comprises MEK.

16. An ink composition as claimed in claim 1 further comprising a corrosion inhibitor.

25 17. An ink composition as claimed in claim 1 further comprising fluorosurfactant.